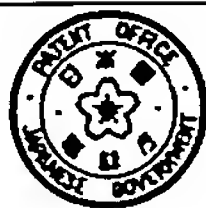


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### (54) PREPARATION OF ETHYLENE COPOLYMER

#### (57) Abstract:

**PURPOSE:** To obtain a low-density ethylene copolymer, by copolymerizing preliminarily ethylene with an  $\alpha$ -olefin using a catalyst comprising a titanium catalyst component with a specific specification supported by a magnesium compound and an aluminum compound, followed by polymerization.

**CONSTITUTION:** In the preparation of an ethylene copolymer with a density of  $0.900\text{W}0.945\text{g/cm}^2$  by copolymerizing ethylene with a small ratio of an  $\alpha$ -olefin having 3 or more C at a temperature not higher

than  $100^\circ\text{C}$  by using a catalyst comprising A) a titanium catalyst component supported by a magnesium compound, consisting of A-1) a substance having a specific surface area not less than  $40\text{m}^2/\text{g}$ , an average particle diameter of  $5\text{W}200\mu$ , and a standard deviation of particle size distribution not more than 2.1 and (A-2) a substance having a specific surface area not less than  $80\text{m}^2/\text{g}$  and an organic acid ester and B) an organoaluminum compound,  $0.01\text{W}50\text{g}$  of ethylene per g of the titanium catalyst component is copolymerized preliminarily with a  $3\leq\text{C}$   $\alpha$ -olefin and then polymerized to give the copolymer. The rate of the preliminary copolymerization is not more than one-fifth of that of the polymerization.

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